

Abdul-Hamid Soubra

List of Publications by Year in descending order

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70
papers

2,799
citations

279701

23
h-index

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70
all docs

70
docs citations

70
times ranked

920
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotational failure mechanisms for the face stability analysis of tunnels driven by a pressurized shield. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 1363-1388.	1.7	333
2	Face Stability Analysis of Circular Tunnels Driven by a Pressurized Shield. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 215-229.	1.5	258
3	Upper-Bound Solutions for Bearing Capacity of Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1999, 125, 59-68.	1.5	230
4	Probabilistic Analysis of Circular Tunnels in Homogeneous Soil Using Response Surface Methodology. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1314-1325.	1.5	181
5	Probabilistic Analysis and Design of Circular Tunnels against Face Stability. International Journal of Geomechanics, 2009, 9, 237-249.	1.3	179
6	Three-dimensional face stability analysis of pressurized tunnels driven in a multilayered purely frictional medium. Tunnelling and Underground Space Technology, 2015, 49, 18-34.	3.0	142
7	Continuous velocity fields for collapse and blowout of a pressurized tunnel face in purely cohesive soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2061-2083.	1.7	131
8	Validation of a New 2D Failure Mechanism for the Stability Analysis of a Pressurized Tunnel Face in a Spatially Varying Sand. Journal of Engineering Mechanics - ASCE, 2011, 137, 8-21.	1.6	130
9	Static and seismic passive earth pressure coefficients on rigid retaining structures. Canadian Geotechnical Journal, 2000, 37, 463-478.	1.4	119
10	Probabilistic analyses of tunneling-induced ground movements. Acta Geotechnica, 2013, 8, 181-199.	2.9	110
11	Probabilistic Analysis of Pressurized Tunnels against Face Stability Using Collocation-Based Stochastic Response Surface Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 385-397.	1.5	99
12	Reliability-Based Analysis and Design of Strip Footings against Bearing Capacity Failure. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 917-928.	1.5	60
13	Bearing capacity of strip footings on spatially random soils using sparse polynomial chaos expansion. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 2039-2060.	1.7	58
14	Probabilistic analysis of strip footings resting on a spatially random soil using subset simulation approach. Georisk, 2012, 6, 188-201.	2.6	54
15	Range of the Safe Retaining Pressures of a Pressurized Tunnel Face by a Probabilistic Approach. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1954-1967.	1.5	49
16	Probabilistic analysis and design of strip foundations resting on rocks obeying Hoek-Brown failure criterion. International Journal of Rock Mechanics and Minings Sciences, 2012, 49, 45-58.	2.6	48
17	Three-Dimensional Passive Earth Pressures by Kinematical Approach. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 969-978.	1.5	47
18	Kriging-Based Reliability Analysis of Strip Footings Resting on Spatially Varying Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	42

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19	Passive earth pressures in the presence of hydraulic gradients. <i>Geotechnique</i> , 1999, 49, 319-330.	2.2	41
20	Three-Dimensional Face Stability Analysis of Circular Tunnels by a Kinematical Approach. , 2008, , .		40
21	Reliability-Based Analysis of Strip Footings Using Response Surface Methodology. <i>International Journal of Geomechanics</i> , 2008, 8, 134-143.	1.3	39
22	Probabilistic analysis at the serviceability limit state of two neighboring strip footings resting on a spatially random soil. <i>Structural Safety</i> , 2014, 49, 2-9.	2.8	38
23	Passive and active earth pressures in the presence of groundwater flow. <i>Geotechnique</i> , 2006, 56, 149-158.	2.2	31
24	Probabilistic Analysis of Strip Footings Resting on Spatially Varying Soils and Subjected to Vertical or Inclined Loads. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	31
25	Probabilistic analysis of an offshore monopile foundation taking into account the soil spatial variability. <i>Computers and Geotechnics</i> , 2019, 106, 205-216.	2.3	25
26	Bearing Capacity of Foundations Resting on a Spatially Random Soil. , 2008, , .		22
27	Probabilistic analysis and design at the ultimate limit state of obliquely loaded strip footings. <i>Geotechnique</i> , 2010, 60, 275-285.	2.2	22
28	Probabilistic analysis of strip footings resting on spatially varying soils using kriging metamodeling and importance sampling. <i>Computers and Geotechnics</i> , 2019, 114, 103107.	2.3	21
29	Probabilistic analysis of a one-dimensional soil consolidation problem. <i>Georisk</i> , 2012, 6, 36-49.	2.6	18
30	Three-Dimensional Face Stability Analysis of Circular Tunnels by Numerical Simulations. , 2008, , .		16
31	Improved active learning probabilistic approach for the computation of failure probability. <i>Structural Safety</i> , 2021, 88, 102011.	2.8	16
32	Probabilistic analysis of obliquely loaded strip foundations. <i>Soils and Foundations</i> , 2012, 52, 524-538.	1.3	15
33	A full three-dimensional model for the estimation of the natural frequencies of an offshore wind turbine in sand. <i>Wind Energy</i> , 2021, 24, 699-719.	1.9	15
34	Incorporating Bayesian Networks in Markov Decision Processes. <i>Journal of Infrastructure Systems</i> , 2013, 19, 415-424.	1.0	11
35	Variational displacement method for geosynthetically reinforced slope stability analysis. <i>Geotextiles and Geomembranes</i> , 1998, 16, 1-25.	2.3	10
36	Efficient estimation of the failure probability of a monopile foundation using a Kriging-based approach with multi-point enrichment. <i>Computers and Geotechnics</i> , 2020, 121, 103451.	2.3	9

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37	Discussion of "Seismic Bearing Capacity and Settlements of Foundations" by R. Richards Jr., D. G. Elms, and M. Budhu (April, 1993, Vol. 119, No. 4). Journal of Geotechnical Engineering, 1994, 120, 1634-1636.	0.4	8
38	Extension of subset simulation approach for uncertainty propagation and global sensitivity analysis. Georisk, 2012, 6, 162-176.	2.6	8
39	Bearing capacity of spatially random rock masses obeying Hoek-Brown failure criterion. Georisk, 2017, 11, 215-229.	2.6	8
40	Reliability Analyses at Ultimate and Serviceability Limit States of Obliquely Loaded Circular Foundations. Geotechnical and Geological Engineering, 2014, 32, 729-738.	0.8	7
41	Probabilistic analyses of soil consolidation by prefabricated vertical drains for single-drain and multi-drain systems. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 2398-2420.	1.7	7
42	Variational displacement method for geosynthetically reinforced slope stability analysis II. Global stability. Geotextiles and Geomembranes, 1998, 16, 27-44.	2.3	6
43	Static and seismic passive earth pressure coefficients on rigid retaining structures: Discussion. Canadian Geotechnical Journal, 2001, 38, 1149-1150.	1.4	6
44	Influence of the Scale of Fluctuation of the Friction Angle on the Face Stability of a Pressurized Tunnel in Sands. , 2011, , .		6
45	Dynamic analysis of a monopile-supported offshore wind turbine considering the soil-foundation-structure interaction. Soil Dynamics and Earthquake Engineering, 2022, 158, 107281.	1.9	6
46	Numerical Simulations for the Bearing Capacity of Strip Footings. , 2007, , 1.		5
47	Extension of dynamic programming models for management optimisation from single structure to multi-structures level. Structure and Infrastructure Engineering, 2013, 9, 432-447.	2.0	5
48	Partially Observable Markov Decision Processes incorporating epistemic uncertainties. European Journal of Operational Research, 2015, 241, 391-401.	3.5	5
49	EFFECT OF SOIL SPATIAL VARIABILITY ON THE DYNAMIC BEHAVIOR OF A SLOPE. , 2016, , .		5
50	Probabilistic Analysis of the Face Stability of Circular Tunnels. , 2009, , .		4
51	Probabilistic analysis of strip footings based on enhanced Kriging metamodeling. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2667-2686.	1.7	4
52	Subset Simulation and Its Application to a Spatially Random Soil. , 2011, , .		3
53	Bearing Capacity of Strip Footings on Spatially Random Soils Using Sparse Polynomial Chaos Expansion. , 2011, , .		3
54	Discussion and Closure: Upper-Bound Solutions for Bearing Capacity of Foundations. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2000, 126, 856-857.	1.5	2

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55	Static and seismic passive earth pressure coefficients on rigid retaining structures: Reply. Canadian Geotechnical Journal, 2001, 38, 1151.	1.4	2
56	Reliability-Based Analysis and Design of Foundations Resting on a Spatially Random Soil. , 2008, , .		2
57	Extension of CSRSM for the Parametric Study of the Face Stability of Pressurized Tunnels. , 2011, , .		2
58	Etude de la butÃ©e sur un Ã©cran de largeur limitÃ©e en sol frottant. Revue EuropÃ©enne De GÃ©nie Civil, 2000, 4, 543-576.	0.0	1
59	Reliability-Based Analysis and Design of Obliquely Loaded Footings. , 2007, , 1.		1
60	Reliability-Based Analysis and Design of Eccentrically Loaded Footings. , 2009, , .		1
61	Reliability-Based Analysis of Strip Footings Subjected to an Inclined or an Eccentric Loading. , 2010, , .		1
62	Deterministic and Probabilistic Seismic Analyses of a Slope-Footing System. , 2011, , .		1
63	Discussion and Closure: Numerical Studies of Bearing-Capacity Factor N^* . Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 465-466.	1.5	0
64	Discussion and Closure: Load-Displacement Prediction for Horizontally Loaded Vertical Plates. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 1998, 124, 460-462.	1.5	0
65	Probabilistic Analysis of Shallow Foundations on Rocks Obeying Hoek-Brown Failure Criterion. , 2011, , .		0
66	Influence of Soil Spatial Variability and Stochastic Ground-Motion on the Dynamic Behavior of a Slope. , 2012, , .		0
67	Improved Subset Simulation for the SLS Analysis of Two Neighboring Strip Footings Resting on a Spatially Random Soil. , 2012, , .		0
68	Probabilistic Analysis of Strip Footings Resting on Spatially Varying Soils Using Importance Sampling and Kriging Metamodeling. , 2017, , .		0
69	Efficient Sparse Polynomial Chaos Expansion Methodology for Computationally-Expensive Deterministic Models. , 2017, , .		0
70	BEARING CAPACITY OF STRIP FOOTINGS ON SPATIALLY RANDOM SOILS USING KRIGING AND MONTE CARLO SIMULATION. , 2016, , .		0